

Rabbit HDAC5 Polyclonal Antibody | anti-HDAC5 antibody

Anti-HDAC5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19236	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

HDAC5; Polyclonal Antibody; Anti-HDAC5 Antibody; KIAA0600; Histone deacetylase 5; HD5; EC 3. 5. 1. 98; Antigen NY-CO-9; histone deacetylase 5; anti-HDAC5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HDAC5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-HDAC5 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human, Mouse ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human HDAC5 recombinant protein (Position: R13-H1107).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 10. Flow Cytometry analysis of THP-1 cells using anti-HDAC5 antibody (AAA19236). Overlay histogram showing THP-1 cells stained with AAA19236 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HDAC5 Antibody (AAA19236, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 9. IF analysis of HDAC5 using anti-HDAC5 antibody (AAA19236). HDAC5 was detected in immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-HDAC5 Antibody (AAA19236) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 8. IF analysis of HDAC5 using anti-HDAC5 antibody (AAA19236). HDAC5 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-HDAC5 Antibody (AAA19236) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of HDAC5 using anti-HDAC5 antibody (AAA19236). HDAC5 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-HDAC5 Antibody (AAA19236) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 6. IHC analysis of HDAC5 using anti-HDAC5 antibody (AAA19236). HDAC5 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-HDAC5 Antibody (AAA19236) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 5. IHC analysis of HDAC5 using anti-HDAC5 antibody (AAA19236). HDAC5 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-HDAC5 Antibody (AAA19236) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-HDAC5 antibody	Histone deacetylase 5, also called HDAC5 or KIAA0600, is an enzyme that in humans is encoded by the HDAC5 gene. The protein encoded by this gene belongs to the class II histone deacetylase/acuc/apha family. This gene is mapped to 17q21. 31. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2(MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer.
References	1. McKinsey, T. A., Zhang, C. -L., Lu, J., Olson, E. N. Signal-dependent nuclear export of a histone deacetylase regulates muscle differentiation. Nature 408: 106-111, 2000. 2. Potthoff, M. J., Wu, H., Arnold, M. A., Shelton, J. M., Backs, J., McAnally, J., Richardson, J. A., Bassel-Duby, R., Olson, E. N. Histone deacetylase degradation and MEF2 activation promote the formation of slow-twitch myofibers. J. Clin. Invest. 117: 2459-2467, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62750349
-----------	----------

NCBI GeneID	10014
NCBI Accession #	NP_001015053.1
NCBI GenBank Nucleotide #	NM_001015053.1
UniProt Accession #	Q9UQL6 ; O60340 ; O60528 ; Q96DY4 ; C9JFV9
Molecular Weight	121,978 Da
NCBI Official Full Name	histone deacetylase 5 isoform 3
NCBI Official Synonym Full Names	histone deacetylase 5
NCBI Official Symbol	HDAC5
NCBI Official Synonym Symbols	HD5; NY-CO-9
NCBI Protein Information	histone deacetylase 5; antigen NY-CO-9
UniProt Protein Name	Histone deacetylase 5
UniProt Gene Name	HDAC5
UniProt Synonym Gene Names	KIAA0600; HD5
UniProt Entry Name	HDAC5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/hdac5-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19236>